

## REFERENCES

1. Rouse, M., 2014. *computational fluid dynamics (CFD)*. [Online].
2. Ahmed, L., 2018. Dynamic Measurements for Determining Poisson's Ratio of Young Concrete. *Nordic Concrete Research*, 11 May, Issue Publ. No. NCR 58 – ISSUE 1– Article 6, pp. 95-106.
3. Aksenov, A., Dyadkin, D., Luniewski, T. & Pokhilko, V., 2004. *Fluid Structure Interaction analysis using Abaqus and FlowVision*. s.l., s.n.
4. Alaghmandan, M. & Elnimeiri, M., 2013. Reducing Impact Of Wind On Tall Buildings Through Design And Aerodynamic Modifications. *AEI 2013*, pp. 847-856.
5. Anon., 1978. *Design manual "Design building for high winds "*. Sri Lanka: s.n.
6. Anon., 2007 (Amendment No.1 (August 2015)). *Structural Design Actions - Part 4 -Earthquake actions in Australia :AS 1170.4 -2007*. s.l.:1170.4-2007, AS.
7. Anon., 2012. *Turbulence Part 2 - Wall Functions and  $y^+$  Requirements*. [Online]  
Available at: <https://www.computationalfluiddynamics.com>
8. Anon., 2014. *ABAQUS 6.14 User Documentation*. s.l.:Simulia.
9. Anon., 2014. *ANSYS-Turbulence Modeling-Introduction to ANSYS Fluent*. [Online].
10. Anon., 2017. [Online]  
Available at: <https://www.researchgate.net/post>
11. Anon., 2018. *Log wind profile*. [Online]  
Available at: <https://en.wikipedia.org/>
12. Anon., 2019. *Effect of Wind Design of High Rise Buildings*. [Online]  
Available at: <https://ukdiss.com>
13. Anon., 2019. *IESL Guide Lines*. [Online]  
Available at:  
[https://iesl.lk/index.php?option=com\\_content&view=article&id=43:iesl-guidelines&catid=19&lang=en&Itemid=162](https://iesl.lk/index.php?option=com_content&view=article&id=43:iesl-guidelines&catid=19&lang=en&Itemid=162)

14. Anon., 2020. *Fluid Dynamics*. [Online]  
Available at: <https://en.wikipedia.org>
15. Anon., 2020. *List of tallest structures in Sri Lanka*. [Online]  
Available at: <https://en.wikipedia.org/>
16. Anon., 2020. *Planetary boundary layer*. [Online]  
Available at: <https://en.wikipedia.org/>
17. Anon., 2020. *Reynolds number*. [Online]  
Available at: <https://en.wikipedia.org>
18. Anon., 2020. *Y+ range recommendations in documentation*. [Online]  
Available at: <https://www.simscale.com/>
19. Anon., n.d. *British Standard: Eurocode 1: "Actions on Structures – Part1- 4: General actions - wind actions; BS EN 1991-1-4:2005 – Sri Lankan National Annex "*. s.l.:s.n.
20. Anon., n.d. *British Standard: Eurocode 1: "Actions on Structures – Part1- 4: General actions - wind actions; BS EN 1991-1-4:2005 "*. London: British Standard Institution.
21. Anon., n.d. *CP3 Chapter V: 1972, "Code of Basic data for the design of buildings chapter V. Loading, Part 2, Wind Loads"*. London: British Standard Institution.
22. Antipin, A. et al., 2014. *Numerical Simulation of Wind Loads on High-Rise Buildings*. Melbourne, s.n.
23. AS/NZS1170.2, 2011. *Australian and New Zealand standards: "Structural design actions Part 2: wind actions; AS/NZS1170.2:20011"*. s.l.:s.n.
24. Becker, S., Lienhart, H. & Durst, F., 2002. Flow around three-dimensional obstacles in boundary layers. *Wind Engineering and Industrial Aerodynamics*, Volume 90, pp. 265-279.
25. Bendini, L., 2019. *High-rise building or skyscraper: what's the difference*. [Online].
26. Benra, F.-K. et al., 2011. A Comparison of One-Way and Two-Way Coupling Methods for Numerical Analysis of. *Journal of Applied Mathematics*, August. Volume 2011.

27. Bernek, W. & Kotten, V., 1979.
28. Blocken, B., Stathopoulos, T., Carmeliet, J. & Hensen, J., 2011. Application of CFD in building performance simulation for the. *Journal of Building Performance Simulation*, Vol. 4, No. 2, June 2011, 157–184, June, Volume Vol. 4, No. 2, p. 157–184.
29. Bwail, K., 2019. *Why Tall Buildings Need Wind Load Analysis*. [Online].
30. Elshaer, A. et al., 2016. LES Evaluation of Wind-induced Responses for an Isolated and a Surrounded Tall Building. *Engineering Structures* 115(2016), pp. 179-195.
31. Emeis, S. & Turk, M., 2007. Comparison of logarithmic wind profiles and power law wind profiles and their applicability for offshore wind profiles. February.
32. Franke, J. et al., 2014. *Recommendations on the use of CFD in wind engineering*. s.l., s.n., pp. 1-11.
33. Gaudio, R., Miglio, R. & Dey, S., 2010. Non Universality of Von Kármán's  $\kappa$  in Fluvial Streams. *Journal of Hydraulic Research, International Association for Hydraulic Research (IAHR)*, 48(5), pp. 658-663.
34. Gerges, R. R. & Benuska, K., 2013. Across-Wind Response of High-Rise Buildings. *Structure*, July.
35. Haby, J., 2020. *Wind Speed increasing with Height*. [Online] Available at: <https://www.theweatherprediction.com>
36. Hall, J. J., 2005. High-Rise Building Definition, Development, and Use. In: *High-Rise Security and Fire Life Safety*. s.l.:High-Rise Building Fires. Quincy, MA: National Fire Protection Association, p. 1.
37. Hulle, B., 2012. *Study of Wake Region of a Typical Isolated Building: Part I :Flow Visualization*. Rio De Janiro, s.n.
38. Irwin, P. A., 2009. Wind engineering challenges of the new generation of supertall buildings. *J. Wind Eng. Ind. Aerodyn.* 97(2009) , pp. 328-334.
39. Jayasundara, H. M., Koliyabandara, S. M. & Wijesundara, K. K., 2018. Wind Loads on Tall Buildings: A Comparative Study of the International Wind

- Codes and Numerical Simulation. *Journal of the Institution of Engineers, Sri Lanka* · July 2018 , June, Volume ENGINEER - Vol. LI, No. 03, , pp. 31-45.
40. Kumar, H. S. & Reddy, N. V., 2015. Estimation of Wind Forces on Square Tall Building with Acceptance Ratio 1:1:7 by ABAQUS. *International Research Journal of Engineering and Technology (IRJET)*, 3(5), pp. 1581-1587.
41. Kwon, K. D. & Kareem, A., 2013. Comparative study of major international wind codes and standards for wind effects on tall buildings. *Engineering Structures* 51 (2013), pp. 23-35.
42. Lia, B., Liua, J., Luoa, F. & Manc, X., 2015. Evaluation of CFD Simulation Using Various Turbulence Models for Wind Pressure on Buildings Based on Wind Tunnel Experiments. *Procedia Engineering* 121 (2015), pp. 2209-2216.
43. Maduranga, W. S. & Lewangamage, C. S., 2018. Development of Wind Loading Maps for Sri Lanka for use with Different wind Loading Codes. *ENGINEER*, LI(03), pp. 47-55.
44. Mendis, P. et al., 2007. Wind Loading on Tall buildings. *EJSE special issue; Loading on structures*, pp. 41-54 .
45. Mendis, P., Ngo, T., Haritos, N. & Hira, A., 2007. *Wind Loading on Tall Buildings*. s.l., s.n., p. 53.
46. Moghaddam, E. H., Amindeldar, S. & Besharatizadeh, A., 2011. New approach to natural ventilation in public buildings inspired by iranian's traditional windcatcher. *Procedia Engineering* 21 - 2011 International Conference on Green Buildings and Sustainable Cities, p. 42 – 52.
47. Mohamed, . A., 2013. *On Mesh Convergence and Accuracy Behaviour for CFD Applications*, s.l.: s.n.
48. Mohotti, D., Mendis, P. & Ngo, T., 2013. *Application of Computational Fluid Dynamics (CFD) in Wind Analysis of Tall Buildings*. Kandy, s.n.
49. Olenko, V. & Puzyrev, P., 2013. *Study of Wind Effects on Unique Buildings*. s.l., s.n.
50. Revuz, J., Hargreaves , D. & Owen, J., 2010. *Domain size for Computational Fluid Dynamics modelling of tall buildings*. Bristol, s.n., pp. 273-276.

51. Reynolds, O., 1895. On the Dynamical Theory of Incompressible Viscous Fluids and the Determination of the Criterion. *Philosophical Transactions of the Royal Society of London A*. 186, pp. 123-164.
52. Sath, A. & Pal, A., 2018. A Literature Study of Wind Analysis on High Rise Building. *International Journal of Advanced Engineering Research and Science (IJAERS)*, 5(11), pp. 263-266 .
53. Schmitt, F. G., (2007. About Boussinesq's turbulent viscosity hypothesis: historical remarks and a direct evaluation of its validity. *C. R. Mécanique* 335, pp. 617-627 .
54. Smagorinsky, J., 1963. General Circulation Experiments with the Primitive Equations. *Monthly Weather Review*, 91 (3), pp. 99-164.
55. Spalart, P. & Allmaras, S., 1992. A One-Equation Turbulence Model for Aerodynamic Flows. *AIAA Paper 92-0439* .
56. Taranath, B. S., 1998. In: *Steel, Concrete, and Composite Design of Tall Buildings*. s.l.:McGraw-Hill Education.
57. Taranath, B. S., 2005. In: *Wind and Earthquake Resistant Buildings Structural Analysis and Design*. s.l.:Marcel Dekker.
58. Vafaeihosseini, E., Sagheb, A. & Ramancharla, P. K., 2012. *Analysis of Highrise Building using Computational Fluid Dynamics Approach: A Case Study on 38Storey High-rise Building*. s.l., s.n.
59. Weerasuriya, A. U., Lewangamage , C. S. & Jayasinghe , M. T., 2010. *Comparison of Five Major Wind Codes with Sri Lankan Context*. South Korea, s.n.
60. Yoshikawa, M. & Tamura, T., 2013. *LES for wind Loads Estimated by Unstructured Grid System*. Shanghai, s.n., pp. 1960-1965.
61. Yoshikawa, M. & Tamura, T., 2013. *Wind Tunnel Study of Wind Pressure Distribution on Xi'an's Tallest Building and the Finite Element Calculation and Analysis*. s.l., s.n., pp. 572-582.
62. Zhang, G., Dou, Z. & Li, J., 2013. *LES of Fluctuating Pressures on a High-Rise Building Influenced by Windward Building*. Chennai, s.n., pp. 920-929.